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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/653,838	09/02/2003	Chih-Kuang Chang	4129 EXAMINER		
25859	7590 12/13/2006				
WEI TE CH		CHAWAN, SHEELA C			
	NTERNATIONAL, INC. REX DRIVE	ART UNIT	PAPER NUMBER		
SANTA CLA	ARA, CA 95050	2624			
			DATE MAILED: 12/13/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.		Applicant(s)				
		10/653,838		CHANG ET AL.				
		Examiner		Art Unit				
			Sheela C. C		2624	<u> </u>		
Period fo	The MAILING DATE of this commun or Reply	nication appe	ears on the d	cover sheet with the c	orrespondence ad	idress		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE IN Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this coming period for reply is specified above, the maximum is reto reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.136 munication. tatutory period wi y will, by statute,	ATE OF THIS 6(a). In no even ill apply and will a cause the applic	S COMMUNICATION t, however, may a reply be time expire SIX (6) MONTHS from ation to become ABANDONE	I. sely filed the mailing date of this o (35 U.S.C. § 133).			
Status								
1)⊠	Responsive to communication(s) file	ed on 02 Se	eptember 20	03.		•		
2a)□	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,—	closed in accordance with the pract							
Disposit	ion of Claims				•			
4)⊠	Claim(s) 1-10 is/are pending in the	application.				••		
,	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[Claim(s) is/are allowed.					•		
6)⊠	Claim(s) <u>1-10</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restri	iction and/or	r election re	quirement.				
Applicat	ion Papers							
9)[The specification is objected to by the	he Examiner	r.					
10)⊠	The drawing(s) filed on <u>02 Septemb</u>	o <u>er 2003</u> is/a	are: a)⊠ ad	cepted or b) object	ted to by the Exa	miner.		
•	Applicant may not request that any obje	ection to the o	drawing(s) be	held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	g the correcti	ion is require	d if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).		
11)	The oath or declaration is objected	to by the Ex	aminer. Not	e the attached Office	Action or form P	TO-152.		
Priority :	under 35 U.S.C. § 119							
12)🛛	Acknowledgment is made of a claim	n for foreign	priority und	er 35 U.S.C. § 119(a)-(d) or (f).			
a)	⊠ All b) ☐ Some * c) ☐ None of:				•			
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies				ed in this Nationa	l Stage		
	application from the Internati		•					
* ;	See the attached detailed Office acti	on for a list	of the certifi	ed copies not receive	ed.	·		
Attachme	, ,				(570 445)			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review		 Interview Summary Paper No(s)/Mail D 		·			
3) 🛛 Info	mation Disclosure Statement(s) (PTO/SB/08		5) Notice of Informal I 6) Other:	formal Patent Application				
Рар	er No(s)/Mail Date <u>1/10/06,9/2/03</u> .			o, 🗀 ouiei				

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 1/10/06, 9/2/03, the information disclosure statement is being considered by the examiner.

Drawings

3. The Examiner has approved drawings filed on 9/2/03.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-10 are rejected are rejected under 35 U.S.C. 102(e) as being anticipated by Yashida et al., (US. 6,141,439, Listed in IDS, filed on Jan 10, 2006).

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As to claim 1, Yashida discloses an image measuring system for obtaining measurement data on an object by processing images thereof, the image measuring system comprising:

an image (column 4, lines 13-15) obtaining device for obtaining a first image (note, images are obtained by a pair of stereoscopic device, column 4, lines 23-24, fig 2, 21) of an object to be

measured and a second image of a standard object (column 4, lines 24-27); and

a measurement computer linked to the image obtaining device via a communication network (fig 1) processing the first image and the second image to obtain measurement data on the object, the measurement computer (fig 2, 23) comprising:

an image obtaining module for obtaining the first image and the second image (fig 2, 23);

an image processing module for processing the first image and the second image, and for obtaining basic data needed in measuring the object (note fig 8, element 7, extracting data based on the width from the reference image); and an image measuring module for computing an actual size of the object based on the basic data (note, correcting magnification of the reference image, column 5, lines 9-58, column 6, lines 4-49, copy claim 1, a data magnification).

As to claim 2, Yashida discloses the image measuring system as claimed in claim 1, wherein the image obtaining device is a digital camera (column 2, lines 5-22).

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As to claim 3, Yashida discloses the image measuring system as claimed in claim 1, wherein the first image and the second image are obtained under the same conditions (note, correcting magnification based on the distances between the lattice points mapped on the images, the magnification of the data in the vicinity of the reference points so that it becomes virtually equal to the magnification of the searched data (column 2, lines 5-22).

As to claim 4, Yashida discloses the measuring system as claimed in claim 1, wherein the image-processing module comprises:

a format conversion sub-module for converting formats of obtained images into formats, which can be identified by a corresponding measurement computer (column 1, lines 6- 15).

a proportion conversion (fig 2) sub-module for computing a conversion proportion based on an actual size and an image size of the standard object (column 5, lines 23-33);and

a border processing sub-module for ascertaining borders of different parts of the measured object according to different lattice densities in the first image (column 5, lines 9-40).

As to claim 5, Yashida disclose the image measuring system as claimed in claim 1, wherein the image processing module further comprises an image adjusting submodule for adjusting the first image according to different camera lens focuses of the image obtaining device (fig 2, element 23 and 24).

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As to claim 6, Yashida discloses an image measurement method for obtaining measurement data on an object by processing images thereof, the method comprising the steps of (fig 8, step 6 and 7);

- (a) obtaining a first image of an object to be measured and an second image of an standard object (fig 8, step 6)
- (b) converting formats of the first image and the second image into formats which can be identified by a measurement computer, and computing a conversion proportion based on an actual size and an image size of the standard object (column 5, lines 9-40); and
- (c) measuring sizes of different parts of the object in the first image, and computing actual sizes of the parts according to the conversion proportion (column 7, lines 16-20).

As to claim 7, Yashida discloses the image measuring method as claimed in claim 6, wherein the images are obtained by a digital camera (column 4, lines 1- 15).

As to claim 8, Yashida discloses the image measuring method as claimed in claim 6, wherein step (b) further comprises the step of ascertaining borders of different parts of the object according to different lattice densities in the first image (column 7, lines 23-42).

As to claim 9, Yashida discloses the image measuring method as claimed in claim 6, wherein step (b) further comprises the step of adjusting the first image according to a camera lens focus of the image obtaining device (column 3, lines 24- 36).

As to claim 10, see the rejection of claim 1 above.

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Other prior art cited

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kikuchi et al., (US. 6,801,650 B1) discloses mechanism and method for controlling focal point position of UV light and apparatus and method for inspection.

Tyan et al., (US. 6,980, 685 B2) discloses model-based localization and measurement of miniature surface mount components.

Siegel et al., (US. 5,015,867) discloses apparatus and method for measuring the diameter of a moving elongated material.

DeVane (US. 5,228,066) discloses system and method for measuring computer system time intervals.

Richer et al., (US. 7,046,839 B1) discloses techniques for photogrammetric system.

Schwarz (US. 6,975,404 B2) discloses device and process for the determination of the properties of reflective bodies.

Kitaguchi et al., (US. 7,001,024 B2) discloses image input apparatus using projected light.

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Contact Information

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheela C Chawan whose telephone number is. 571-272-7446. The examiner can normally be reached on Monday - Thursday 7.30 - 6.00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sheela Chawan Patent Examiner Group Art Unit 2624 Dec 11, 2006

SHEELA CHAIVAN PRIMARY EXAMINER